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	Application No.	Applicant(s)	V
Notice of Allowability	09/903,302	MITCHELL, MATTHEW	P.
	Examiner	Art Unit	
	Nihir Patel	3743	
The MAILING DATE of this communication ap All claims being allowable, PROSECUTION ON THE MERITS herewith (or previously mailed), a Notice of Allowance (PTOL-8 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	IS (OR REMAINS) CLOSED i 35) or other appropriate comm RIGHTS. This application is	n this application. If not included unication will be mailed in due cours	
1. This communication is responsive to 03.29.2004.			
2. $\boxtimes$ The allowed claim(s) is/are $2,4,6,8,10$ and $12-20$ .			
3. $\boxtimes$ The drawings filed on <u>07.10.2001</u> are accepted by the E	xaminer.		
4. ☐ Acknowledgment is made of a claim for foreign priority  a) ☐ All b) ☐ Some* c) ☐ None of the:  1. ☐ Certified copies of the priority documents ha  2. ☐ Certified copies of the priority documents ha  3. ☐ Copies of the certified copies of the priority of International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:	ave been received. ave been received in Application documents have been receive	on No d in this national stage application fr	
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the requirer	nents
<ol> <li>A SUBSTITUTE OATH OR DECLARATION must be sub INFORMAL PATENT APPLICATION (PTO-152) which g</li> </ol>			E OF
6. CORRECTED DRAWINGS ( as "replacement sheets") m	oust be submitted.		
(a) ☐ including changes required by the Notice of Draftspe	erson's Patent Drawing Revie	w ( PTO-948) attached	
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date	<del></del> ·		
(b) including changes required by the attached Examine Paper No./Mail Date	er's Amendment / Comment o	r in the Office action of	
Identifying indicia such as the application number (see 37 CFF each sheet. Replacement sheet(s) should be labeled as such in	t 1.84(c)) should be written on t n the header according to 37 Cl	he drawings in the front (not the back R 1.121(d).	) of
<ol> <li>DEPOSIT OF and/or INFORMATION about the department of the department of</li></ol>			he
Attachment(s)			
1. Notice of References Cited (PTO-892)		formal Patent Application (PTO-152	2)
2.  Notice of Draftperson's Patent Drawing Review (PTO-948)		ummary (PTO-413), /Mail Date	
<ol> <li>Information Disclosure Statements (PTO-1449 or PTO/SE Paper No./Mail Date <u>07.10.2001</u></li> </ol>		Amendment/Comment	
4. Examiner's Comment Regarding Requirement for Deposi	_	Statement of Reasons for Allowand	e
of Biological Material	9.	Henry Byonett Supervisory Patent Examiner Supervisory 9 3700	

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## **DETAILED ACTION**

## Election/Restrictions

The examiner agrees with the applicant in response to the taxonomy of species and acknowledges the applicant's decision to provisionally election to proceed with claims 2 and 13 (figures 6A, 6B, 8A, 8B, 9A, 9B, 9C, 10A, 10B, and 11) and dependent upon claims 2 and 13 (claims 4, 6, 8, 10, 12, and 14-20).

## Examiner's Amendment

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Matthew P. Mitchell on October 7<sup>th</sup>, 2004.

The application has been amended as follows: In order to consider the application for allowance claims 1, 3, 5, 7, 9, and 11 are cancelled.

## Reason for Allowance

The following is an examiner's statement of reasons for allowance: Claims 2, 4, 6, 8, 10, 12, and 13 through 20 (re-numbered claims 1 through 14) of application number 09/903,302 are allowable over the prior art of record in that the regenerator comprises multiple layers of foil, an improvements comprising a layer of foil containing a multiplicity of continuous grooves on a first surface thereof and a multiplicity of grooves on a second surface thereof wherein the grooves on the first surface are slanted relative to the overall direction of flow in the regenerator;

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and wherein the grooves on the second surface are slanted relative to the overall direction of flow regenerator, and wherein the grooves on the first surface intersect the grooves on the second surface, and wherein the intersections of the grooves on the first surface and the grooves on the second surface comprise holes in the layer of foil.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nihir Patel whose telephone number is (703) 306-3463. The examiner can normally be reached on 7:30 to 4:30 every other Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Henry Bennett can be reached on 703-308-0101. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-fee).

NP October 13<sup>th</sup>, 2004

Henry Hennett Supervisory Patent Examiner